

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1-6. (canceled)

7. (currently amended) Hinge device used to join a leaf [[(2)]] of a door [[(1)]] to a frame [[(3)]] thereof, including:

[[-]] at least one connecting rod [[(4, 5)]] which is mounted to rotate in relation to the frame and in relation to the leaf [[(2) .]];

[[-]] a carriage [[(7)]] which is mounted to move in translation widthwise of the door in a guide [[(14)]] which is solidly connected to the frame [[(3)]], and in rotation relative to the door leaf [[(2)]], the carriage [[(7)]] has multiple first wheels [[(9)]] the [[axis]] axes of rotation of which [[is]] are oriented in a same horizontal plane ~~horizontally~~ and ~~applies~~ apply on the guide [[(14) ,]]; and

~~characterized in that~~

~~It comprises~~ at least one rolling member between the carriage [[(7)]] and a lateral wall [[(15)]] of the guide [[(14)]],

wherein the rolling member is a second wheel fitted to pivot on the carriage and capable of coming into contact with the lateral wall of the guide, and

wherein the second wheel is assembled to pivot on a same axis as the rotational axis of the carriage in relation to the leaf in said same horizontal plane.

8. (canceled)

9. (canceled)

10. (currently amended) ~~Device~~ The device according to claim 7,

~~characterized in that~~

~~it includes~~ further comprising a support structure ~~[[(16)]]~~ that can be solidly joined to the frame ~~[[(3)]]~~ of the door ~~[[(11)]]~~, ~~[[this]]~~ said structure ~~[[(16)]]~~ including means for adjusting its height.

11. (currently amended) ~~Device~~ The device according to claim 7,

~~characterized in that~~

~~it includes~~ further comprising two connecting rods ~~[[(4, 5)]]~~, one located in the upper part of the leaf, the other in the lower part.

12. (currently amended) A door ~~Door (1),~~

~~characterized in that~~

~~it is equipped with~~ in combination with at least one device according to claim 7.

13-16. (canceled)

17. (currently amended) ~~Device~~ The device according to claim 10,

~~characterized in that~~

~~it includes~~ further comprising two connecting rods [(4, 5)], one located in the upper part of the leaf, the other in the lower part.

18. (canceled)

19. (canceled)

20. (currently amended) A door ~~Door (1),~~

~~characterized in that~~

~~it is equipped with~~ in combination with at least one device according to claim 10.

21. (currently amended) A door ~~Door (1),~~

~~characterized in that~~

~~it is equipped with~~ in combination with at least one device according to claim 11.

22. (new) Hinge device used to join a leaf of a door to a frame thereof, comprising:

at least one connecting rod which is mounted to rotate in relation to the frame and in relation to the leaf;

a carriage which is mounted to move in translation widthwise of the door in a guide which is solidly connected to the frame, and in rotation relative to the door frame, the carriage has four first wheels; and

at least a second wheel between the carriage and a lateral wall of the guide, said second wheel pivots on the carriage and is capable of coming into contact with the lateral wall of the guide, said second wheel is assembled to pivot on a same axis as the rotational axis of the carriage in relationship to the leaf, said four first wheels are positioned symmetrically around a center of said second wheel.

23. (new) The hinge device as claimed in claim 22, wherein the four first wheels have axes of rotation which are oriented in a same horizontal plane.

24. (new) The device as claimed in claim 23, wherein said second wheel rotates in said same horizontal plane.